

Science Bowl 2004



See what the buzz is about



AMES LABORATORY

IOWA STATE UNIVERSITY

Brain power

Want to give your school's top science and math students a chance to strut their stuff? Then enter the Regional Science Bowl hosted by the U.S. Department of Energy's Ames Laboratory and Iowa State University.

Science Bowl is a rapid-fire, daylong competition in which high school students answer questions from a wide range of science and math disciplines. The winning team receives an all-expenses-paid trip to the DOE's National Science Bowl.

The **2004 Ames Lab/ISU Regional Science Bowl** will take place **Saturday, Jan. 31**, in **ISU's Memorial Union**, beginning at 8 a.m.



Q. What two classes of organic molecules contain the functional group structure of OH?

A. Alcohol and acids



Form your team

Teams are comprised of up to five students (four members and an alternate) and a teacher who serves as coach. Students must be enrolled for the current school year in grades 9, 10, 11 or 12 at the team's school and must be less than 20 years of age.

Four of the team's five players compete at any one time – regardless of which player has been designated as the alternate. During the intermission or between matches, the coach can substitute a player.

What to study

Science Bowl questions cover a variety of topics: astronomy; biology; chemistry; mathematics; physics; and earth and general sciences. Preparation pays off; top teams frequently spend months practicing for the event. Sample questions are available at: <http://www.scied.science.doe.gov/nsb/samplqs.htm>

Q. By weight, what is the most abundant ion in sea water?

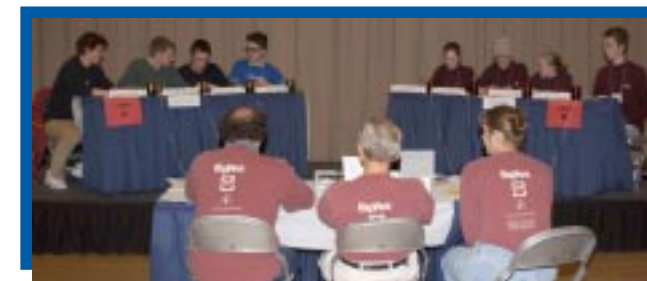
A. Chloride

How to play the game

The Ames Lab/ISU Science Bowl is one of more than 60 regional competitions held throughout the nation. Our format is similar to the National Science Bowl. The morning session is a round-robin tournament, and the top 16 teams advance to the double-elimination competition in the afternoon session.

Each 16-minute match has a two-minute intermission. Questions are read aloud by a moderator. Any player can buzz in to answer a "toss-up" question. Points are awarded for a correct answer, and the team can then answer a bonus question. At the end of the match, the team with the most points is declared the winner.

Ames Lab and ISU scientists and staff serve as judges, moderators, timekeepers and scorekeepers.





The awards

Trophies are awarded to the top three teams with each player receiving an individual award. The winning team advances to the 2004 National Science Bowl on April 29 - May 3 in Washington, D.C.

The costs

The Ames Lab/ISU Regional Science Bowl is absolutely FREE! There is no entry fee. All teams will be provided lunch on competition day. Ten distant schools will receive two hotel rooms each for the night prior to the event. Schools will be notified if selected.

Q. Gabbro is a common igneous rock derived from what type of magma?

A. Basaltic.



Washington High School, Cedar Rapids, winner of the 2003 regional contest, accepts congratulations from Ames Laboratory Director Tom Barton.

A look back

- 2003 Washington High School, Cedar Rapids
- 2002 Cedar Falls High School, Cedar Falls
- 2001 Ames High School, Ames
- 2000 Ames High School, Ames
- 1999 Ankeny High School, Ankeny
- 1998 Valley High School, West Des Moines
- 1997 Valley High School, West Des Moines
- 1996 Ames High School, Ames
- 1995 Ames High School, Ames
- 1994 Ames High School, Ames
- 1993 Ankeny High School, Ankeny
- 1992 Ankeny High School, Ankeny
- 1991 Lincoln High School, Des Moines

In 1998, Valley High School went on to win the National Science Bowl championship and receive an all-expenses-paid trip to Lindau, Germany, to meet with Nobel Laureates in chemistry.

How to enter

Beginning **Wednesday, October 15**, on-line registrations will be accepted at <http://www.ameslab.gov/community/scibowl.html>. The first 48 schools to submit completed applications are eligible for the competition. Schools whose applications are received after the positions are filled will be placed on a waiting list in the event of cancellations.

For more information, contact:

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<http://www.ameslab.gov/community/scibowl.html>



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